

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/001849

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 A01N63/02 A23L3/3526
 // (A01N63/02, 61:00, 59:26, 59:00, 37:44)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHEDMinimum documentation searched (classification system followed by classification symbols)
 IPC 7 A01N A23L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, CHEM ABS Data, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; A.A.SALAMAH ET AL.: "Effect of some physical and chemical factors on the bactericidal activity of human lactoferrin and transferrin against Yersinia pseudotuberculosis" XP002255992 retrieved from STN-INTERNATIONAL Database accession no. 123:79372 CA abstract	1, 2, 7, 8, 10, 12, 20, 22-26
Y	& MICROBIOLOGICA, vol. 18, no. 3, 1995, pages 275-281, —/—	1, 4, 9, 13, 14, 16, 21

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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Date of the actual completion of the international search

Date of mailing of the International search report

25 June 2004

19/07/2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 2002, HANNA H A ET AL: "Lactoferrin (LF) and EDTA synergistic activity: An alternative antimicrobial catheter lock solution." XP002255993 Database accession no. PREV200300265551 abstract	1, 6-8, 10
Y	& ABSTRACTS OF THE INTERSCIENCE CONFERENCE ON ANTIMICROBIAL AGENTS AND, vol. 42, 2002, page 164, 42nd Interscience Conference on Antimicrobial Agents and Chemotherapy; San Diego, CA, USA; September 27-30, 2002, 2002	1, 3, 4, 9, 13, 14, 16-27
X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; M.O'D.LASSITER: "Ethylenediaminetetraacetate (EDTA): influence on the antimicrobial activity of human lactoferrin against Escherichia coli and Streptococcus mutans" XP002255994 retrieved from STN-INTERNATIONAL Database accession no. 115:205842 CA see title & AVAIL.: UNIV.MICROFILMS INT., ORDER NO. DA9113995 / FROM: DISS.ABSTR.INT. B 1991, 51 (12, PT. 1), 5709, 1990, pages 1-196,	1
X	US 6 468 965 B1 (CUTLER PAUL) 22 October 2002 (2002-10-22) page 2, line 50 - page 3, line 11	12, 16-20, 22-27
Y	DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 1993, DIONYSIUS DAVID A ET AL: "Forms of lactoferrin: Their antibacterial effect on enterotoxigenic Escherichia coli." XP002255995 Database accession no. PREV199396107368 abstract & JOURNAL OF DAIRY SCIENCE, vol. 76, no. 9, 1993, pages 2597-2606, ISSN: 0022-0302	1-27
		-/-

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/001849

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 340 924 A (TOMITA MAMORU ET AL) 23 August 1994 (1994-08-23) column 2, line 28 - line 30 column 2, line 50 - line 55 column 5, line 2 - line 4	1-27
X	WO 00/72874 A (NAIDU A SATYANARAYAN) 7 December 2000 (2000-12-07) page 7, line 34 - page 9, line 10 page 10, line 19 - line 22 page 11, line 3 - line 5 page 14, line 24 - line 28 page 20, line 10 - page 31, line 33	12, 15, 19, 20, 22, 24-27
Y		1-27
X	DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; XP002285989 retrieved from STN-INTERNATIONAL Database accession no. 127:277469 CA abstract & JP 09 235209 A (UENO) 9 September 1997 (1997-09-09)	1, 2, 11, 12, 24-27
A	US 2002/160941 A1 (KRUZEL MARIAN L) 31 October 2002 (2002-10-31) paragraph '0011! paragraph '0034! - paragraph '0035!	1-27
A	DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 1993, NIKAWA H ET AL: "The fungicidal effect of human lactoferrin on Candida albicans and Candida krusei." XP002255996 Database accession no. PREV199497174729 abstract & ARCHIVES OF ORAL BIOLOGY, vol. 38, no. 12, 1993, pages 1057-1063, ISSN: 0003-9969	1-27
A	DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 1984, NONNECKE B J ET AL: "INHIBITION OF MASTITIC BACTERIA BY BOVINE MILK APO LACTOFERRIN EVALUATED BY IN-VITRO MICRO ASSAY OF BACTERIAL GROWTH" XP002255997 Database accession no. PREV198478027492 abstract	1-27

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INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2004/001849

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	& JOURNAL OF DAIRY SCIENCE, vol. 67, no. 3, 1984, pages 606-613, ISSN: 0022-0302 -----	
A	DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 1986, BORTNER C A ET AL: "BACTERICIDAL EFFECT OF LACTOFERRIN ON LEGIONELLA-PNEUMOPHILA" XP002255998 Database accession no. PREV198681082134 abstract & INFECTION AND IMMUNITY, vol. 51, no. 2, 1986, pages 373-377, ISSN: 0019-9567 -----	1-27
A	DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 1989, VISCA P ET AL: "GROWTH AND ADSORPTION OF STREPTOCOCCUS-MUTANS 6715-13 TO HYDROXYAPATITE IN THE PRESENCE OF LACTOFERRIN" XP002255999 Database accession no. PREV198987116319 abstract & MEDICAL MICROBIOLOGY AND IMMUNOLOGY, vol. 178, no. 2, 1989, pages 69-80, ISSN: 0300-8584 -----	1-27
A	DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 2001, MIRZA S ET AL: "Bactericidal effects of lactoferrin on Streptococcus pneumoniae." XP002256000 Database accession no. PREV200200189014 abstract & ABSTRACTS OF THE GENERAL MEETING OF THE AMERICAN SOCIETY FOR, vol. 101, 2001, page 142, 101st General Meeting of the American Society for Microbiology; Orlando, FL, USA; May 20-24, 2001, http://www.asmusa.org/mtgsrc/generalmeeting2001.htm ISSN: 1060-2011 -----	1-27

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/001849

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 6468965	B1	22-10-2002	NONE		
US 5340924	A	23-08-1994	JP	2688098 B2	08-12-1997
			JP	3215500 A	20-09-1991
			DE	69002606 D1	09-09-1993
			DE	69002606 T2	20-01-1994
			EP	0437958 A1	24-07-1991
			NZ	236786 A	26-03-1992
WO 0072874	A	07-12-2000	US	6172040 B1	09-01-2001
			AU	5303500 A	18-12-2000
			AU	5449100 A	18-12-2000
			BR	0011021 A	29-04-2003
			BR	0011558 A	26-02-2002
			EP	1181044 A2	27-02-2002
			JP	2003500425 T	07-01-2003
			WO	0072690 A2	07-12-2000
			WO	0072874 A1	07-12-2000
			US	2004043922 A1	04-03-2004
JP 09235209	A	09-09-1997	NONE		
US 2002160941	A1	31-10-2002	US	6455687 B1	24-09-2002
			US	6277817 B1	21-08-2001
			US	6066469 A	23-05-2000
			AU	2436095 A	29-11-1995
			WO	9530339 A1	16-11-1995
			AU	7453391 A	10-10-1991
			WO	9113982 A1	19-09-1991